

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Hyeonkuk JEONG	12/21/2009
Xiaosong ZHOU	12/21/2009
Joe ABUAN	12/21/2009
Xiaojin SHI	12/22/2009
Hsi-Jung WU	12/21/2009
James Oliver NORMILE	12/21/2009
RECEIVING PARTY DATA	
Name:	Apple Inc.
Street Address:	1 Infinite Loop
City:	Cupertino
State/Country:	CALIFORNIA
Postal Code:	95014-2084
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	12646065
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ATTORNEY DOCKET NUMBER:	13316/822101

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**PATENT
 REEL: 023696 FRAME: 0232**

NAME OF SUBMITTER:

Martin E. Miller

Total Attachments: 2

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ASSIGNMENT

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned hereby sell, assign, and transfer to **Apple Inc.**, a corporation of the state of California, having a principal place of business at One Infinite Loop, Cupertino, California, 95014-2084 ("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all inventions and discoveries that are disclosed in the United States Patent Application entitled:

Joint Bandwidth Detection Algorithm for Real-time Communication

the specification of which is attached hereto unless the following is entered:


Filed on	as United States Application Number or PCT International Application Number	and was amended on (if applicable)

and in and to said United States Patent Application and all provisional, divisional, continuing, substitute, renewal, reissue, and other patent applications that have been or shall be filed in the United States or any foreign country on any of said inventions and discoveries; and in and to all original and reissued patents that have been or shall be issued in the United States or any foreign country on said inventions and discoveries; and in and to all rights of priority resulting from the filing of said United States Patent Application;

agree that said Assignee may apply for and receive a patent or patents for said inventions and discoveries in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all provisional, divisional, continuing, substitute, renewal, reissue, and other patent applications on any and all said inventions and discoveries; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said inventions and discoveries and the history thereof; and generally assist said Assignee, its successors, assigns, or representatives in securing and maintaining proper patent protection for said inventions and discoveries and for vesting title to said inventions and discoveries, and all applications for patents and all patents on said inventions and discoveries, in said Assignee, its successors, assigns, and legal representatives; and

covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Inventor: **Hyeonkuk Jeong**

Inventor Signature 	Date 12/21/2009
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Inventor: **Xiaosong Zhou**

Inventor Signature 	Date 12/21/09
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Inventor: **Joe Abuan**

Inventor Signature 	Date 12/21/2009
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Inventor: **Xiaojin Shi**

Inventor Signature 	Date 12/22/2009
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Inventor: **Hsi-Jung Wu**

Inventor Signature 	Date 2009/12/21
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Inventor: **James Oliver Normile**

Inventor Signature 	Date 12/21/2009
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